



EXPRESS MAIL NO. EV889151584US

Sheet 1 of 2

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			ATTY. DOCKET NO.	APPLICATION NO.
			660119.401	10/811,310
			APPLICANTS	
			Jeffrey J. Berkley et al.	
			FILING DATE	GROUP ART UNIT
			March 26, 2004	2629

#### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,303,429	04/19/94	Sato et al.	395	119	already on record
AE	AB	5,389,865	02/14/95	Jacobus et al.	318	568.11	—
	AC	5,576,727	11/19/96	Rosenberg et al.	345	179	—
	AD	5,577,981	11/26/96	Jarvik	482	4	—
	AE	5,587,937	12/24/96	Massie et al.	364	578	—
	AF	5,709,219	01/20/98	Chen et al.	128	782	—
	AG	5,828,813	10/27/98	Ohm	395	95	—
	AH	6,281,651	08/28/01	Haanpaa et al.	318	568.11	—
	AI	6,413,229	07/02/02	Kramer et al.	600	595	—
	AJ	6,417,638	07/09/02	Guy et al.	318	560	—
	AK	6,630,923	10/07/03	Sato	345	156	—
▼	AL	2001/0038376	11/08/01	Sato	345	156	—

#### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	AM				

#### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AE	AN	“The Phantom Haptics Interfaces: A Device for Probing Virtual Objects,” SensAble Technologies, <a href="http://www.sensable.com/community/asme.htm">http://www.sensable.com/community/asme.htm</a> , download date of November 16, 2006. (The Phantom Arm '93).
AE	AO	“Industrial Controls”, Immersion Corporation, <a href="http://www.immersion.com/industrial/joystick/impulse_engine.php">http://www.immersion.com/industrial/joystick/impulse_engine.php</a> , download date of November 16, 2006.
AE	AP	“CyberGrasp™ Exoskeleton” Immersion Corporation – 3D Interaction: Products, <a href="http://www.immersion.com/3d/products/cyber_grasp.php">http://www.immersion.com/3d/products/cyber_grasp.php</a> , download date of November 16, 2006.

EXAMINER	/Alexander Eisen/	DATE CONSIDERED	12/15/2006
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\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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## U.S. PATENT DOCUMENTS

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	BA						

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AE	BC	CyVerse Corp., "Spidar (CyDar) Incormation", <a href="http://www.cyverse.co.jp/eng/">http://www.cyverse.co.jp/eng/</a> and <a href="http://www.cyverse.co.jp/Products/spidar.html">http://www.cyverse.co.jp/Products/spidar.html</a> , download dates of November 16, 2006.
AE	BD	Jackson et al., "Force Feedback and Medical Simulation," Interactive Technology and the New Paradigm for Healthcare, IOS Press and Ohmsha, 1995, pp. 147-151.
AE	BE	Kim et al., "Haptic Interface with 7 DOF Using 8 Strings: SPIDAR-G," ICAT2000, 25-27, October 2000, National Taiwan University, Tawain, 7 pages.
AE	BF	Kim et al., "Design of a Tension Based Haptic Interface SPIDAR-G," 4 <sup>th</sup> World Multiconference on Systemics, Cybernetics and Informatics (SCI2000) and the 6 <sup>th</sup> Internation Conference on Information Systems Analysis and Synthesis (ISAS2000), Orlando, FL, USA, in July 23-26, 2000, 6 pages.
AE	BG	Kim et al., "Development of Tension Based Haptic Interface and Possibility of its Application to Virtual Reality," VRST2000, October 22-25, 2000, Seoul, Korea, pp. 199-205.
AE	BG	Kim et al., "Design of a Tension Based Haptic Interface SPIDAR-G," IMECE2000 (joint with ASME2000), DSC-Vol 69-2, Proceedings of the ASME, November 5-10, 2000, Orlando, FL, USA, 4 pages.
AE	BH	Kim et al., "'Cutting Edge' Force-Feedback Device : SPIDAR-G," Proceedings of the 32 <sup>nd</sup> ISR (International Symposium on Robotics), April 19-21, 2001, Seoul, Korea, pp. 1771-1776.
AE	BI	Kim et al., "Tension Based 7-DOF Force Feedback Device: SPIDAR-G," Proceedings of the IEEE Virtual Reality 2002, March 24-28, 2002, Orlando, FL, USA, 2 pages.
AE	BJ	Kim et al., "Tension Based 7 DOFs Force Feedback Devices: SPIDAR-G," Transactions on Control, Automation, and Systems Engineering Vol. 4, No. 1, March 2002, pp. 9-16.
AE	BK	Kim et al., "A Novel Seven Degree of Freedom Haptic Device for Engineering Design," Journal of Virtual Reality, Springer-Verlag London Ltd., UK, 2003, pp. 217-228.

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